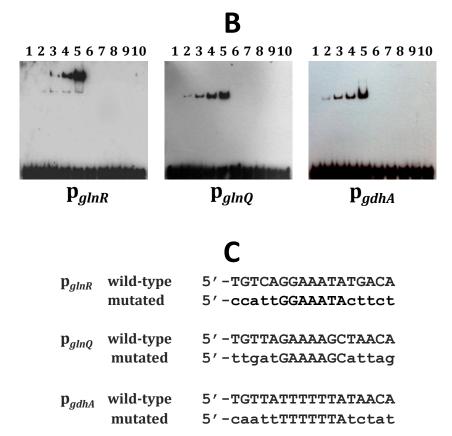


**p**<sub>glnR</sub>

 $\mathbf{p}_{gdhA}$ 



S1 Fig. EMSA demonstrating the specific interaction of GlnR (A) and PmrA (B) to the GlnR box in pglnR, pglnQ, and pgdhA. All reactions were performed with 0.025 pmole of biotinlabeled probes. The reaction mixture was separated on a 6% polyacrylamide gel. Lane 1, reactions containing the wild-type probe only. Lanes 2 to 5, reactions containing the wild-type

probe and 16 nM to 128 nM of MBP-GlnR (A) and MBP-PmrA (B) in twofold increments,

respectively. Lane 6, reactions containing the mutated probe only. Lanes 7 to 10, reactions containing the mutated probe and 16 nM to 128 nM of MBP-GlnR (A) and MBP-PmrA (B) in twofold increments, respectively. (C) Sequences of the wild-type GlnR box and the mutated box in  $p_{glnR}$ ,  $p_{glnQ}$ , and  $p_{gdhA}$  are shown. The mutated bases are in lowercase letters.